

SENSING TAKES SHAPE WITH RLG28

RETROREFLECTIVE AREA SENSORS



BECAUSE OBJECTS COME IN ALL SHAPES AND SIZES

RLG28 series retroreflective area sensors are used to detect objects, especially their leading edges, regardless of position, shape, or texture. They offer a simple, fast, affordable, and consistent way to sense compared to a thru-beam light grid or multiple single-beam sensors.

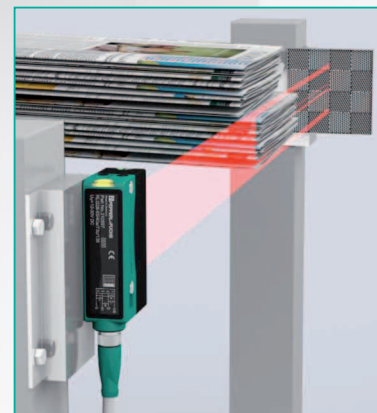
Retroreflective area sensors contain multiple transmitter and receiver elements in one housing aimed at a reflector, resulting in a continuous height or width detection field over the entire distance from the sensor to the reflector. When the light beam is obstructed, the sensor's output changes state.

BENEFITS

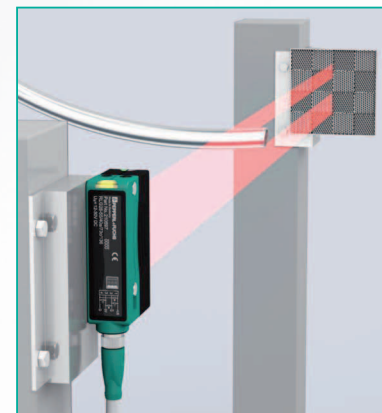
- More detection coverage than single-beam sensors
- More cost-effective than a thru-beam light grid or an array of single-beam sensors
- Reliable detection of objects regardless of shape, position, or surface
- Constant resolution over entire sensing range and detection field
- Low temperature operation down to -30 °C (-22 °F)
- Exclusive 4-in-1™ output technology to reduce inventory costs
- Built-in cross-talk protection
- Mounts and wires same as single-beam sensors
- Highly visible transmitter LEDs for alignment ease
- Bright, enhanced function LEDs indicate sensor status

TYPICAL APPLICATIONS

- Leading edge detection of various pallet types
- Overhang control (detection of pallet protrusion)
- Detection of irregular or undefined edges (bags)
- Sense objects with variable positions (board bouncing along conveyor)
- Detection of objects with changing shapes or heights (pouches)
- Verify presence of objects with changing texture (wrapped cases, soiled trays)
- Ejection control (sensing falling objects)
- Muting function for use with safety light curtains

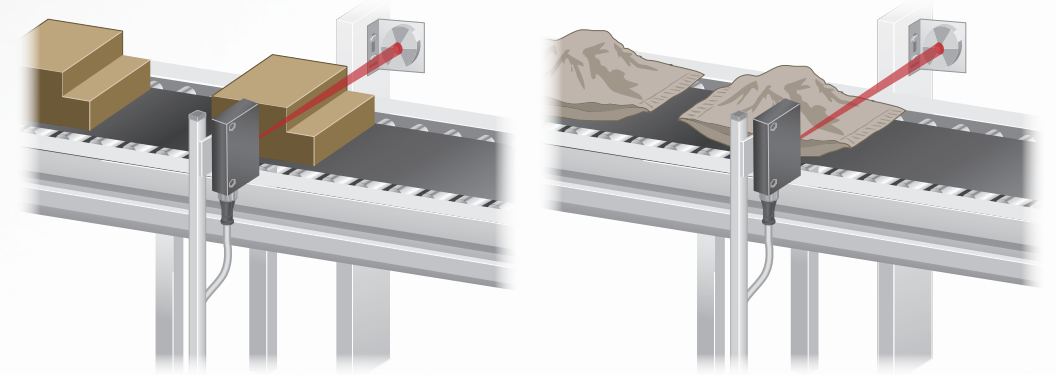


RLG28 detects the true leading edges of objects, such as a stack of newspapers, even if the edge is inconsistent.



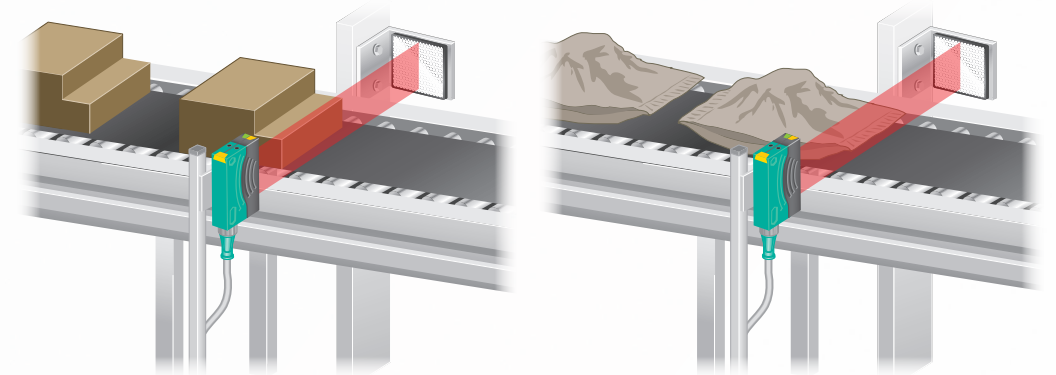
Objects with round surfaces that may be positioned differently, such as a curved rod, are sensed repeatedly.

SINGLE-BEAM SENSOR



While single-beam sensors (top) can detect a passing object's leading edge at different points based on where the light spot is positioned, RLG28 retroreflective area sensors (right) consistently monitor the true leading edge of objects.

RETROREFLECTIVE AREA SENSOR



Model Number	RLG28-55/40a/73c/136	RLG28-55/40a/115b/136
Sensing Range	0 m - 4 m	
Reflector Distance	0.2 m - 4 m	
Resolution	12 mm across entire sensing range	
Detection Field	60 mm across entire sensing range	
Output	4-in-1™	
Connection	Integral M12 quick-disconnect	Pigtailed M12 quick-disconnect

FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—wherever you need us.

Contact

Pepperl+Fuchs Inc.
1600 Enterprise Parkway
Twinsburg, Ohio 44087 · USA
Tel. +1 330 486-0001 · Fax +1 330 405-4710
E-mail: fa-info@us.pepperl-fuchs.com

Worldwide Headquarters

Pepperl+Fuchs GmbH · Mannheim · Germany
E-mail: fa-info@de.pepperl-fuchs.com

USA Headquarters

Pepperl+Fuchs Inc. · Twinsburg · USA
E-mail: fa-info@us.pepperl-fuchs.com

Asia Pacific Headquarters

Pepperl+Fuchs Pte Ltd · Singapore
Company Registration no. 199003130E
E-mail: fa-info@sg.pepperl-fuchs.com

www.pepperl-fuchs.com

 **PEPPERL+FUCHS**
SENSING YOUR NEEDS